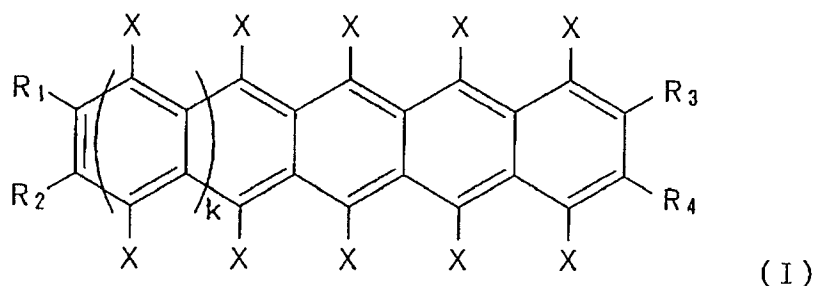


### AMENDMENTS TO THE CLAIMS

1. **(Currently amended)** A polyacene compound having a structure represented by the chemical formula (I):



wherein at least one of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> in the chemical formula (I) is/are an alkyl group having 1 to 15 atoms or an alkoxy group having 1 to 15 carbon atoms, and the other(s) is/are a hydrogen atom, ~~some of Xs, that are two or more,~~

wherein two of Xs are each a halogen group and bound to the same acene ring and the ~~other(s) is/are~~ others are each a hydrogen atom, and

wherein k is an integer of 1 to 5.

2. **(Original)** The polyacene compound according to claim 1, wherein R<sub>3</sub> and R<sub>4</sub> are each a hydrogen atom.

3-4. **(Cancelled)**

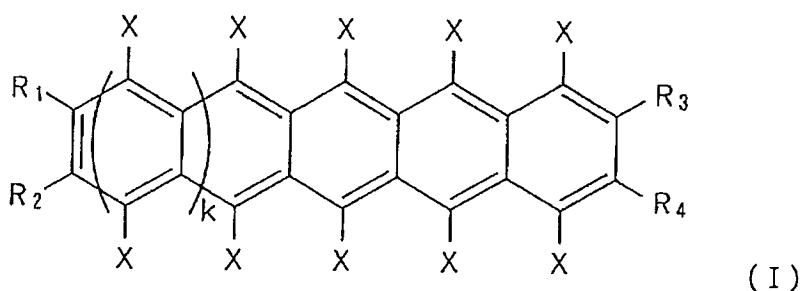
5. **(Previously presented)** The polyacene compound according to claim 1, wherein the alkyl group or the alkoxy group has 2 to 15 carbon atoms.

6. **(Previously presented)** The polyacene compound according to claim 1, wherein the alkyl group or the alkoxy group has 2 to 6 carbon atoms.

7-8. **(Cancelled)**

9. (Previously presented) The polyacene compound according to claim 1, wherein k is 1 or 2.

10. **(Currently amended)** An organic semiconductor thin film made of a polyacene compound having a structure represented by the chemical formula (I) and having crystallinity[[]]



wherein at least one of R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> in the chemical formula (I) is/are an alkyl group having 1 to 15 carbon atoms or an alkoxy group having 1 to 15 carbon atoms, and the other(s) is/are a hydrogen atom; ~~some of Xs, that are two or more,~~

wherein two of Xs are each a halogen group and bound to the same acene ring and the ~~other(s) is/are~~ others are each a hydrogen atom; and

wherein k is an integer of 1 to 5.

11. (Previously presented) The organic semiconductor thin film according to claim 10, wherein R<sub>3</sub> and R<sub>4</sub> are each a hydrogen atom.

12-13. (Cancelled)

14. (Previously presented) The organic semiconductor thin film according to claim 10, wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> have 2 to 15 carbon atoms, when they are functional groups.

15. (Previously presented) The organic semiconductor thin film according to claim 10, wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> have 2 to 6 carbon atoms, when they are functional groups.

16-17. (Cancelled)

18. (Previously presented) The organic semiconductor thin film according to claim 10, wherein k is 1 or 2.

19. (Previously presented) The crystalline organic semiconductor thin film according to claim 10 formed on a substrate, wherein the major axis of the molecule of the polyacene compound is oriented toward a right angle to the substrate surface.

20. (Previously presented) An organic semiconductor device composed of the organic semiconductor thin film according to claim 10, at least partly.

21. (Previously presented) A transistor comprising a gate electrode, dielectric layer, source electrode, drain electrode and semiconductor layer, wherein the semiconductor layer is composed of the organic semiconductor thin film according to claim 10.

22-33. (Cancelled)

34. (Previously presented) A display device provided with pixel planes each composed of a number of pixels, wherein each of the pixels is provided with the organic semiconductor device according to claim 20 or transistor according to claim 21.

35. (Previously presented) The display device according to claim 34, wherein an electrode, dielectric layer and semiconductor layer are formed in the organic semiconductor device or transistor by printing or coating a liquid.